

REMARKS

The above amendments to the Preliminary amendment correct a drawing error, typographical errors in the specification, and claims as well as providing more succinct recitations of the invention in the specification and claims.

The amended paragraph and the amended claims without amendment markings are attached hereto.

Respectfully submitted;



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Date Signed

The paragraph commencing on page 3 of the Preliminary Amendment and extending to page 4, as amended herein without amendment markings follows:

--An apparatus for creating a moving haven boundary as described above is illustrated in Figure 8C. The line segments and waypoints of the voyage plan are coupled to a polygonal line generator 90, wherein the line segments of the voyage plan (vectors between waypoints) are assembled and processed as described above, with reference to Figure 8A, to provide a polygonal line representative of the voyage plan. These voyage plan line segments are coupled to a rectangle generator 92 wherein line segments (vectors) that form the rectangles about respective line segments of the voyage plan polygonal line are determined. Line segments intersecting at waypoints requiring an arc are coupled to arc generator 94 wherein arc line segments are established to approximate required arcs between the line segments to complete the boundary polygonal line. Rectangle line segments and arc line segments are coupled to a segment combiner 96 of a boundary generator 98. Segment combiner 96 combines the rectangle line segments and arc line segments to establish a set of line segments which are coupled to start line selector 102. A start line segment is selected by the start line selector 102 which is coupled to an intersect segment selector 104 wherein a second line segment is selected that intersects the start line segment in accordance with the selection procedure previously described. The second line segment is coupled to a repeat generator 106 which designates it as a start line and causes the intersect selector 104 to select a third line from the set of line segments that intersects the second line segment in accordance with the selection criteria. The process is continued until all line segments in the set of line segments have been used. The moving haven boundary is then completed and a buffer generator 105 is activated to establish a buffer between the moving haven and the moving haven boundary.

Amended claims without amendment markings:

1 7. A method in accordance with claim 1 further including the step of:  
2 generating a buffer having a buffer boundary at a selected distance from said  
3 boundary

1 8. A method in accordance with claim 7 wherein said generating step includes  
2 the steps of:

3 forming buffer rectangles centered on said boundary having widths equal to  
4 twice said selected distance and lengths equal to distances between vertices of said  
5 boundary;

6 forming buffer arcs between vertices of said buffer edges, said buffer edges  
7 and said buffer arcs establishing polygonal lines internal and external to said  
8 boundary; and

9 selecting said internal polygonal lines as said buffer boundary.

1 12. A method in accordance with claim 11 wherein said forming step includes the  
2 steps of:

3 combining said line segments and said arc representative line segments to  
4 provide a set of combined line segments;

5 identifying a starting line segment from said set of combined line segments,  
6 said starting line segment having a starting point and an ending point;

7 selecting a line segment intersecting said starting line segment in accordance  
8 with a predetermined selection criteria, thereby providing a selected line segment;

9 eliminating all line segments intersecting said starting segment other than said  
10 selected line segment;

11 repeating said selecting step using said selected line segment as said starting  
12 line segment until all line segments meeting said selection criteria have been  
13 selected.

- 1        16. A method in accordance with claim 10 further including the step of:
  - 2            generating a buffer within said moving haven boundary having a buffer
  - 3            boundary at a selected distance from said moving haven boundary.
- 1        17. A method in accordance with claim 16 wherein said generating step includes
  - 2            the steps of:
    - 3                constructing buffer rectangles centered on said moving haven boundary
    - 4                having widths equal to twice said selected distance and lengths equal to distances
    - 5                between vertices of said moving haven boundary;
    - 6                creating buffer arcs between vertices at buffer edges of said buffer rectangles,
    - 7                said buffer edges and said buffer arcs establishing polygonal lines internal and
    - 8                external to said boundary; and
    - 9                selecting said internal polygonal lines as said buffer boundary.